

2021 ANNUAL DOCKET OF COMPREHENSIVE PLAN AMENDMENTS

May 19, 2021

Project File Number:	SEPA-2021-00311
Proposal Name:	General Wastewater Plan Update
Applicant:	City of Redmond Stormwater Utility
Staff Contacts:	Jeff Thompson, Senior Engineer
	Peter Holte, Senior Planner

TECHNICAL COMMITTEE COMPLIANCE REVIEW AND RECOMMENDATION

Technical Committee shall make a recommendation to the Planning Commission for all Type VI reviews (RZC 21.76.060.E). The Technical Committee's recommendation shall be based on the decision criteria set forth in the Redmond Zoning Code. Review Criteria:

- A. RZC 21.76.070 Criteria for Evaluation and Action.
- B. RZC 21.76.AE Zoning Code Amendment -Text
- C. RZC 21.76.AF Zoning Code Amendment Map

REDMOND COMPREHENSIVE PLAN AMENDMENT SUMMARY

The City Wastewater Utility has completed a <u>draft of the City of Redmond General Wastewater Plan</u> Update. This is a functional plan, required by the Washington State Growth Management Act and based on the City's current zoning allowances assuming built-out conditions. The plan ensures the City is prepared for expected growth by identifying where pipes, pumps, and other wastewater infrastructure need to be extended or replaced.

The Wastewater Utility is bringing this forward as part of the 2021 Annual Comprehensive Plan Amendment Docket so that the Wastewater Utility can proceed with infrastructure updates in the short-term. The Utility is also working with the Planning Department to make more significant updates to the General Wastewater Plan as part of Redmond 2050.

	C 21.76.070 COMPREHENSIVE PLAN AMENDMENT CRITERIA ull staff analysis attached as Attachment A)	MEETS/ DOES NOT MEET
1	Consistency with the Growth Management Act (GMA), the State of Washington Department of Commerce Procedural Criteria, and the King County Countywide Planning Policies (CPPs);	Meets
2	Consistency with the Comprehensive Plan policies and the designation criteria;	Meets
3	If the purpose of the amendment is to change the allowed use in an area, the need for the land uses that would be allowed by the Comprehensive Plan amendment and whether the amendment	NA

Technical Committee Report to the Planning Commission

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May 19, 2021

	C 21.76.070 COMPREHENSIVE PLAN AMENDMENT CRITERIA Il staff analysis attached as Attachment A)	MEETS/ DOES NOT MEET
	would result in the loss of the capacity to meet other needed land uses, especially whether the proposed amendment complies with the policy on no net loss of housing capacity;	
4	Consistency with the preferred growth and development pattern of the Land Use Element of the Comprehensive Plan;	Meets
5	The capability of the land, including the prevalence of critical areas;	Meets
6	The capacity of public facilities and whether public facilities and services can be provided cost- effectively at the intensity allowed by the designation;	Meets
7	The proposed amendment addresses significantly changed conditions. In making this determination the following shall be considered: i. Unanticipated consequences of an adopted policy, or ii. Changed conditions on the subject property or its surrounding area, or, iii. Changes related to the pertinent plan map or text; and iv. Where such change of conditions creates conflicts in the Comprehensive Plan of a magnitude that would need to be addressed for the Comprehensive Plan to function as an integrated whole.	Meets

ADDITIONAL RECOMMENDATIONS

The Technical Committee recommends the following additional conditions for approval as necessary to ensure consistency with the City's development regulations.

<Add any other considerations per 21.76.060 F>

STATE ENVIRONMENTAL POLICY ACT (SEPA)

The lead agency for this proposal has determined that the requirements of environmental analysis, protection, and mitigation measures have been adequately addressed through the City's regulations and Comprehensive Plan together with applicable State and Federal laws. Additionally, the lead agency has determined that the proposal does not have a probable significant adverse impact on the environment as described under SEPA. An Environmental Impact Statement (EIS) is not required under RCW 43.21C.030(2). This decision was made after review of a completed environmental checklist and other information on file with the lead agency.

❖ In accordance with WAC 197-11-340(2) an opportunity for comment and appeal period was provided from to May 5, 2021 to May 20, 2021.

Technical Committee Report to the Planning Commission

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TECHNICAL COMMITTEE RECOMMENDATION

The Technical Committee has reviewed the proposed amendments identified as <u>Alternative 1 (Applicant's Proposal)</u> and finds the amendments to be <u>consistent</u> with review criteria identified below:

A. RZC 21.76.070 Criteria for Evaluation and Action.

The Technical committee identified **no additional conditions** necessary to ensure consistency with the city's development regulations.

ALTERNATIVES

Same as above

REVIEWED AND APPROVED BY

Docusigned by:

Carol Helland,

Carol Helland,

Planning and Community Development Director

Docusigned by:

Daw Juary

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Dave Juarez,

Public Works Director

Attachments

- A. Staff Compliance Review and Analysis
- B. Functional Plan Amendments-Executive Summary
- C. SEPA Threshold Determination

Attachment A—Staff Analysis of Comprehensive Plan Amendment: 2021 General Wastewater Plan Update

Criterion 1: Consistency with the Growth Management Act (GMA), the State of Washington Department of Commerce Procedural Criteria, and the King County Countywide Planning Policies (CPPs)

Meets this criterion:

- In compliance with RCW 36.70A.130-Comprehensive plans—Review procedures and schedules—Amendments and other applicable provisions.
- In compliance with RCW 90.48.110 plans and proposed methods of operation and maintenance of sewerage or disposal systems review procedures
- In compliance with RCW 36.70A.106 that requires notification of Department of Commerce of "intent to adopt" an updated plan or regulations. I
- In Compliance with applicable King Countywide Planning Policies

Criterion 2: Consistency with the Comprehensive Plan policies and the designation criteria

Meets this criterion. The General Wastewater Plan Update supports 32 Comprehensive Policies. The most pertinent include:

- CF-1 Develop and regularly update functional plans that assess capital facility needs and strategies for addressing such needs. Provide opportunities for public involvement appropriate to the nature of the update. Use functional plans to guide the development of capital priorities and investment decisions within each of the following functional areas...Waste and sewer systems;
- CF-2 Include in functional plans and supporting documents, at a minimum, the following features necessary for maintaining an accurate account of longterm capital facility needs and associated costs to the City, and consistency with the Comprehensive Plan and the Zoning Code:
 - A description of the current capital facility infrastructure and the scope and cost of its operation and maintenance;
 - o A description of current capital facility deficiencies and appropriate funding strategies to remedy these deficiencies;
 - o An analysis of capital facilities needed through the year 2030, at a minimum, and preliminary cost estimates to meet those needs;
 - o An analysis specifying how capital facilities will be financed and maintained;
 - o A description of the functional plan's public outreach, participation and review process;
 - o Criteria to be used to prioritize projects and inform the Capital Investment Strategic Plan;
 - A description of how the functional plan and supporting documents respond to Growth Management Act requirements; and Effective 1/27/18 Ord 2913 Redmond Comprehensive Plan Capital Facilities 12-8;
 - An analysis indicating that the functional plan, including any subsequent revisions to or modifications of the functional plan, is consistent with the Comprehensive Plan policies, Zoning Code regulations, and the Capital Investment Strategic Plan.
- CF-3 Review proposed functional plans and updates to existing functional plans to ensure that the plans:
 - Focus on infrastructure needs in both developed and developing areas of Redmond,

- Are consistent with the Comprehensive Plan, and
- Comply with state law.
- UT-1 Ensure that adequate public utilities and facilities are planned for, located, extended, and sized consistent with the planned growth described in the Goals, Vision and Framework Policies; Annexation and Regional Planning; and Land Use Elements.

Criterion 3: If the purpose of the amendment is to change the allowed use in an area, the need for the land uses that would be allowed by the Comprehensive Plan amendment and whether the amendment would result in the loss of the capacity to meet other needed land uses, especially whether the proposed amendment complies with the policy on no net loss of housing capacity;

N/A. This criterion is not applicable to this amendment.

Criterion 4: Consistency with the preferred growth and development pattern of the Land Use Element of the Comprehensive Plan Meets this criterion. The General Wastewater Plan advanced the preferred growth pattern as identified in Framework Policy FW-13 by providing adequate infrastructure to implement the desired intensity and general character consistent with the community's long-term vision.

Criterion 5: The capability of the land, including the prevalence of critical areas.

Meets this criterion. All actions identified by this plan will be subject to the City's development review process and must comply with shoreline, critical area, and other City environmental regulations.

Criterion 6: The capacity of public facilities and whether public facilities and services can be provided cost-effectively at the intensity allowed by the designation.

Meets the criterion.

- The plan ensures that the capacity of public wastewater system facilities match expected growth as detailed in the Redmond Zone Code.
- The plan supports Comprehensive Plan Policy UT7—Require development to pay for or construct growth-related portion of infrastructure needs.

Criterion 7: The proposed amendment addresses significantly changed conditions. In making this determination the following shall be considered:

- i. Unanticipated consequences of an adopted policy, or
- ii. Changed conditions on the subject property or its surrounding area, or,
- iii. Changes related to the pertinent plan map or text; and
- iv. Where such change of conditions creates conflicts in the Comprehensive Plan of a magnitude that would need to be addressed for the Comprehensive Plan to function as an integrated whole.

Meets this criterion. The plan addresses the anticipated change in conditions created by growth within the City as detailed by zoning allowances within the Redmond Zoning Code.

ES Executive Summary

ES.1 Growth

The City of Redmond (City) continues to be a leading employment center in the Pacific Northwest with companies such as Microsoft, AT&T, and Nintendo. Since the 1990s employment has more than doubled within the City and in the next 20 years it is expected to increase by more than 40 percent.

Residential growth has also increased significantly at more than 18 percent in the past 10 years. In the next 20 years this trend is expected to continue with some of the highest sectors of growth expected from multifamily residential; especially in areas of mixed-use development and redevelopment such as in the Downtown core, Overlake, and Marymoor Village.

These high levels of growth will continue to drive the need for expansion of the City's wastewater service and upgrades to its existing system.

ES.2 Capital Improvement Program and Development Projects

The improvement and development projects are grouped into three primary areas:

- Capital Improvement Program
- Developer Extensions/Development Projects
- Septic-to-Sewer Projects

Chapter 6 provides a summary of all projects. Chapter 4 and Appendix F provide more detailed information about the specific projects.

ES.2.1 Capital Improvement Program

Implementation of the Capital Improvement Program (CIP) projects will be determined based on a number of factors, including an increase in flows and/or necessary rehabilitation of aging infrastructure. Timing of projects may also depend on coordination with other utility projects, such as transportation or stormwater improvements.

There are twelve (12) CIP projects identified in this General Wastewater Plan Update (Plan). Five of these projects (replacement and/or upgrades to Lift Stations Nos. 5, 6, 12, 13, and 15) are currently underway. It is anticipated the LS-12, LS-13, and LS-15 projects will be completed in the next 2-3 years. The remaining two stations (LS-5 and LS-6) will be completed in the next 3-5 years. Several of the projects included in the CIP are dependent on flow monitoring to confirm the need for the project. If possible, this flow monitoring should begin as soon as possible. Prioritization of projects beyond 2022 will be identified based on flow monitoring and the criteria mentioned above.

ES.2.2 Developer Extensions/Development Projects

More than 110 developer projects are identified at this time. These projects will also be driven by the rate and location of growth and development. These projects are expected to be funded primarily through developer contributions.

ES.2.3 Septic-to-Sewer Projects

The remaining type of project included in this planning document are the Septic-to-Sewer projects, that connect those homes on septic systems to the wastewater collection system. In 1998, the City implemented a pilot program (Neighborhood Sewer Replacement Program) but did not receive the necessary funding or interest on the part of homeowners to connect to the City's collection system. It is recognized that at some time in the future, it will be necessary for these homeowners to connect to the City's collection system. Each year, the City Council and the Directors team will determine if there is sufficient interest in implementing some or all of the Septic-to-Sewer projects.

ES.3 Other Recommendations

In addition to the capital improvement projects, this Plan contains a number of recommendations for the City's wastewater program. The following recommendations are not capital projects but are actions that the utility should consider.

ES.3.1 Recommended Operation and Maintenance Improvements

There are several recommended improvements included in Chapter 5, including those that the City plans to implement.

ES.3.2 Wastewater Flows and Modeling Recommendations

It is recommended that the City continue to update and maintain the City's wastewater flows and system models. These model projections and system data are contained within the City's model of the wastewater collection system.

ES.4 Funding Growth

The estimated cost of the twelve (12) CIP projects identified in this Plan equals \$43.3 million. The near-term projects (Lift Stations Nos. 5, 6, 12, 13, and 15) account for \$27.3 million of this total. All of these projects are included in the budgeting process and the City has sufficient resources to fund the planned CIP. Several of the planned CIP projects will be completed beyond the near-term projects. Implementation of many of these projects will depend on the rate of growth in specific areas.

Developer extensions will primarily be funded by developers and developer contributions. Funding for the Septic-to-Sewer Projects has not yet been determined but may include a combination of City and homeowner funding.

In addition to the CIP, developer, and Septic-to-Sewer Projects, are projects completed by the operation and maintenance (O&M) department and funded through the O&M annual budget.

ES.5 Planning and Analysis Tools

An important element in the preparation of this Plan, was the creation of the City's wastewater collection system hydrologic/hydraulic model. A City-wide model representing all of the City's wastewater basins was developed to be used as a planning tool. The model developed in conjunction with this Plan provides several important features.

ES.5.1 Industry-Accepted Modeling Platform

The wastewater collection system modeling software, MIKE URBAN, is an industry-accepted platform that will be regularly updated and maintained and provide City staff with ongoing technical support. It simulates both dry and wet weather conditions by modeling both the sanitary flows as well as inflow and infiltration.

ES.5.2 Compatibility with King County Data

One of the reasons that the MIKE URBAN software was selected by the City, was that King County uses this program for regional wastewater modeling. This provides an advantage to the City in that it can easily use the King County data that has been developed as part of the regional data development and modeling.

ES.5.3 GIS Compatibility

The wastewater collection system model and the dry weather flow database were developed using the City's GIS data, as well as other data sources. The City intends to continue to develop its GIS data over time, and to use these GIS sources for future updates to the model and the dry weather flow database.

ES.5.4 Identification of Potential Deficiencies and a More Efficient Use of Staff Time

An advantage to having this wastewater collections system model is that City staff can more easily identify potential deficiencies within the collection system.

For example, during this planning process, use of this model identified several areas where there were potential issues. Maintenance and Operations staff field verified and checked for potential capacity issues at these specific locations; in some cases, confirming problem areas. Other areas that are still questionable should be more closely monitored over time, by conducting flow monitoring in targeted areas.

ES.5.5 What-If Scenarios for Planned Improvements

The model will also provide the City staff with tools for sizing planned improvements where deficiencies exist or where new growth is planned.

ES.5.6 Improved Reliability and Accuracy of Data Sources

The process of creating the dry weather flow database and the wastewater collection system model resulted in a detailed effort to identify missing and incorrect information. Following verification against field data, as-builts, and other data sources now provides City staff with much more reliable information.

Attachment C



Determination of Non-Significance Certification of Public Notice

CITY OF REDMOND

DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

CERTIFICATE OF MAILING

I hereby certify that to the best of my knowledge a Determination of Non-Significance for City of Redmond General Wastewater Plan Update File number: SEPA-2021-00311 was sent to the Applicant and to the attached mailing list copy, by first class mail and electronically mailed to attached SEPA Agency List on or before May 5, 2021

Name (print) Gloria Meerscheidt

Date May 5, 2021

CERTIFICATE OF POSTING

I, the undersigned, certify that on May 5, 2021, I posted copies of the attached

Determination of Non-Significance at: 0 Location(s) on or near the site

0 City Hall – Building Closed – COVID-19

0 Library – Building Closed – COVID-19

Name (print) Gloria Meerscheidt on behalf of Niomi Montes De Oca

Date May 5, 2021



STATE ENVIRONMENTAL POLICY ACT (SEPA) DETERMINATION OF NON-SIGNIFICANCE

For more information about this project visit www.redmond.gov/landuseapps

PROJECT INFORMATION

PROJECT NAME: COR General Wastewater Plan

Update

SEPA FILE NUMBER: SEPA-2021-00311

PROJECT DESCRIPTION:

City of Redmond General Wastewater Plan Update

PROJECT LOCATION:

SITE ADDRESS: 15670 NE 85TH ST

REDMOND, WA 98052

APPLICANT: Jeff Thompson

LEAD AGENCY: City of Redmond

The lead agency for this proposal has determined that the requirements of environmental analysis, protection, and mitigation measures have been adequately addressed through the City's regulations and Comprehensive Plan together with applicable State and Federal laws.

Additionally, the lead agency has determined that the proposal does not have a probable significant adverse impact on the environment as described under SEPA.

An Environmental Impact Statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. **This information is available to the public on request.**

CITY CONTACT INFORMATION

PROJECT PLANNER NAME: Niomi Montes De Oca

PHONE NUMBER: 425-556-2499 EMAIL: nmontesdeoca@redmond.gov

IMPORTANT DATES

COMMENT PERIOD

Depending upon the proposal, a comment period may not be required. An <u>"X"</u> is placed next to the applicable comment period provision.

There is no comment period for this DNS. Please see below for appeal provisions.

'X' This DNS is issued under WAC 197-11-340(2), and the lead agency will not make a decision on this proposal for 14 days from the date below. Comments can be submitted to the Project Planner, via phone, fax (425)556-2400, ema or in person at the Development Services Center located ε 15670 NE 85th Street, Redmond, WA 98052. **Comments must be submitted by 05/20/2021.**

APPEAL PERIOD

You may appeal this determination to the City of Redmond Office of the City Clerk, Redmond City Hall, 15670 NE 85th Street, P.O. Box 97010, Redmond, WA 98073-9710, no later than 5:00 p.m. on 06/04/2021, by submitting a completed City of Redmond Appeal Application Form available on the City's website at www.redmond.gov or at City Hall. You should be prepared to make specific factual objections.

DATE OF DNS ISSUANCE: May 6, 2021

For more information about the project or SEPA procedures, please contact the project planner.

RESPONSIBLE OFFICIAL: Carol V. Helland

Planning Director

Care I welland

SIGNATURE:

RESPONSIBLE OFFICIAL: Dave Juarez

Public Works Director

SIGNATURE:

Address: 15670 NE 85th Street Redmond, WA 98052

CITY OF REDMOND

ENVIRONMENT AL CHECKLIST NON-PROJECT ACTION

(Revised May 2018)

Purpose of the Checklist:

The State Environmental Policy Act (SEPA), chapter 43 .21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the City of Redmond identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully. to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply" and indicate the reason \\hy the question '\does not apply". It is not adequate to submit responses such as "\dot N/A\" or '\does not apply\": without providing a reason why the specific section does not relate or cause an impact. Complete answers to the questions now may avoid unnecessary delays later. If you need more space to write answers attach them and reference the question number .

Some questions ask about governmental regulations. such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the City can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional infom1ation that will help describe your proposal or its environmental effects. When you submit this checklist, the City may ask you to explain your answers or provide additional infom1ation reasonably related to detem1ining if there may be significant adverse impact.

Review Planner Name: Niomi Montes de Oca

Date of Review: __April 26, 2021

То Ве	Comp	oleted By Applicant	Evaluation for Agency Use Only	
Α.	A. BACKGROUND			
	1.	Name of proposed project, if applicable: 2021 General Sewer Plan Update	NMO	
	2.	Name of applicant: Jeff Thompson		
	3.	Address and phone number of applicant and contact person: 15670 NE 85th St. Redmond, WA 98073 425-556-2884		
	4.	Date checklist prepared: 3/9/2021		
	5.	Agency requesting checklist: City of Redmond		
	6.	Give an accurate, brief descript io n of the proposal's scope and nature: 1. Acreage of the site: City wide II. Number of dwelling units/ buildings to be constructed: None Square footage of dwelling units / buildings being add ed: None		
		IV. Square footage of pavement being added: None V. Use or principal activity: City Planning Document VI. Other information: Update existing plan	_	

To Be Comple	Evaluation for Agency Use Only	
7.	Proposed timing or schedule (including phasing, if applicable):	
	Public Involvement - March & April 2021 SEPA/Tech Comm - April & May 2021 Planning Commission - April - June 2021 City Council - May & June 2021 King County Utilities - June - December 2021 Department of Ecology - June - December 2021	NMO
8.	Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal?	
	$\sqrt{\text{Yes}}$ No If yes, explain.	
	Revisions required by applicable comments during the public involvement and approval processes.	
9.	List any environmental information you know about that has been prepared or will be prepared directly related to this proposal.	
	No environmental info since this is a City Planning document.	
10.	Do you know whether applications are pending for governmental approvals of other proposals directly-affecting the property covered by your proposal? Yes √ No If yes, explain.	
		—

Compl	eted By Applicant	Evaluation for A2ency Use Only
11.	List any government approvals or permits that will be needed for your proposal, if known.	·
	City of Redmond City Council approval King County Utilities approval Department of Ecology approval	NMO
12.	Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.	
	This is an update to the City of Redmond General Sewer Plan. The last plan was approved in 2009 and is due for an update. The plan evaluated the City's wastewater system for buildout of the current zoning and indicates where improvements are required by Developers and the City to meet future demand.	
13.	Location of the proposal. Give sufficient infom1ation for a person to understand the precise location of your proposed project, including a street address, if any, and section, township. and range. if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description site plan, vicinity map, and topographic map. if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans	
	agency, you are not required to duplicate maps of detailed plans submitted with any permit applications related to this checklist. The planning document evaluates the whole city and the Novelty Hill area where the City of Redmond provides sewer service. Chapter 4 of the plan details the potential sites for upgrades and expansions to the City sewer system.	
		▼

To Be Completed By Applicant	Evaluation for Agency Use Only	
B. <u>SUPPLEMENTAL</u>		
Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.	NMO	
When answering these questions, be aware of the extent the proposal or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.		
 How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise? 		
As the City grows it produces more wastewater that is sent to King County for treatment. The treated water is then discharged to Puget Sound. By evaluating the City's wastewater system for future growth and providing a list of improvements required to meet the future demand, the City is minimizing the chance of a sewer overflow event. All emergency generators at wastewater pump stations are required to meet the City's noise ordinance.		
Proposed measures to avoid or reduce such increases are:		
Wastewater system improvements described in the plan. Providing adequate sewer capacity to meet zoning buidout conditions will prevent sewer overflows that could make their way into the City's stormwater system and local streams.		
 How would the proposal be likely to affect plants, animals, fish, or marine life? 		
The plan minimizes the chances of wastewater overflowing and effecting plants, animals, fish, or marine life.		
Proposed measures to protect or conserve plants, animals, fish or marine life are:		
The plan reduces the risk of overflows by ensuring the City's wastewater system has adequate capacity and improved infrastructure. This reduces the potential that raw sewage will enter the City's stormwater system, and flow to local streams and other aquatic habitats.		

	mpleted By Applicant	Evaluation for A2encv Use Only
3.	How would the proposal be likely to deplete energy or natural resources?	
	The wastewater system includes 22 lift stations, which require electricity to run the pumps.	NMO
	Proposed measures to protect or conserve energy and natural resources are:	
	Use of a SCADA system to run the pumps efficiently and minimize their usage. Pump sizing is designed to maximize efficiency at design flows.	
4.	How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime fam1lands?	
	The plan minimizes the chances of wastewater overflowing to natural waterways, thereby protecting sensitive aquatic habitat. The Plan aligns with the City's critical areas regulations and other zoning codes.	
	Proposed measures to protect such resources or to avoid or reduce impacts are:	
	The plan relies on City planning processes, zoning code, and environmental protection regulations to determine where extensions and improvements to the wastewater system can and need to be placed. It compares the current conditions of the City's wastewater system to what will be needed in the future, based build-out scenarios that align with zoning allowances and City code.	

Con	npleted By Applicant	Evalua Agency	tion for Use Onl
5.	How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?		ЛΟ
	The plan ensures that the wastewater system is adequately sized to serve the buildout of the current zoning. It compliments the City of Redmond Comprehensive Plan and Zoning Code.		
	Proposed measures to avoid or reduce shoreline and land use impacts are:		
	The plan relies on the City's Comprehensive Plan, Zoning Code, and environmental regulations to determine what areas of the City are allowed development and which areas must be protected. All potential project derived from this plan will be subject to the City's development review process, and must comply with Shoreline, Critical Area, and other City environmental regulations.		
6.	How would the proposal be likely to increase demands on transportation or public services and utilities?		
	The plan was written using projected growth estimates supplied by the Puget Sound Regional Council. As such, it responds and supports the City's growth management activities as define by Comprehensive Plan and Zoning Code. It purpose is to ensure that sewer utility services keep pace with growth and can adequately meet increased demand caused increased housing and businesses densities, as defined in the Redmond Zoning Code.		
	Proposed measures to reduce or respond to such demand(s) are:		
	The plan calls for the extension of sewer system in areas that are expected to receive the greatest amount of growth as per the City's Comprehensive Plan Vision and Zoning Code. This includes extensions and improvement to the wastewater system in areas with close proximity of public transit hubs and light-rail stations, such as Downtown Redmond, Overlake, and the Marymoor Sub-Area.		

Completed By Applicant	Evaluation for A2:ency Use Only
7. Identify, if possible, whether the proposal may conflict with local, state,	
or federal laws or requirements for the protection of the environment.	NMO
The plan helps comply with all the local, state, and federal laws or	
requirements for the protection of the environment by ensuring	
that the City's wastewater system is adequately sized for buildout	
of the current zoning. Additional wastewater system analysis	
would be required if the City increases zoning in any areas.	

c. <u>SIGNATURE</u>

The above answers are true and complete to the best of my knowledge. understand that the lead agency is relying on them to make its decision.

Applicant Signature: JM Mond	WM
Jeff Thompson Name of Signee:	
Position and Agency/Organization	Senior Utility Engineer/City of Redmond n:
Relationship of Signer to Project:	Project Manager
3/9/2021 Date Submitted:	

Chapter 1 Introduction

The City of Redmond's 2019 General Sewer Plan (Plan) updates the City's 2009 General Sewer Plan. The Plan is a tool that the City will use to maintain, operate, and expand the sewer system to meet the needs of existing and future customers. Since the 2009 Plan was approved, several changes and improvements have taken place within the City's service area.

Changes since the 2009 Plan that affect sewer system planning in the Redmond service area include:

- Continued growth in Redmond's service area, mainly in the downtown core and Overlake neighborhoods.
- The 2009 to 2011 King County Decennial Flow Monitoring Program.
- Approval and implementation of Sound Transit 2, with future light rail stations in Overlake, Marymoor and Downtown Redmond.
- Proposed King County replacement of the Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade.
- Proposed redevelopment on the Microsoft Campus.
- Zoning changes adopted by the City.
- City of Redmond Comprehensive Plan updates.

This Plan identifies short-term capital improvements and defines long-term system planning goals and service criteria consistent with regional land use and wastewater planning issues.

As regulations and conditions change, periodic review and revision of this Plan will be appropriate and necessary to reflect such changes. Population, growth, and development trends must be monitored to assess whether the actual trends differ significantly from projections in this Plan and whether these differences significantly affect proposed improvements.

1.1 Purpose and Objectives

The first plan to review the needs of Redmond's complete sewer system was the 1987 Comprehensive Sanitary Sewer Study. This was followed by the 1997 General Sewer Plan and then the 2009 General Sewer Plan. The 1997 Plan incorporated the impacts of rapid growth that surpassed the system capacity, even with the capital improvements outlined in the 1987 Plan. The 1997 and 2009 plans included information from the state, region, and local level regarding land use and growth management.

This 2019 Plan updates the work of the 2009 Plan and is consistent with the land use designations and build-out projections under the City's Comprehensive Plan. This Plan includes 6-year and buildout planning horizons. These planning horizons account for improvements necessary to support the City's projected buildout. Adoption of modifications will take place every six to ten years as the Plan is officially updated in accordance with the Utilities chapter of the City's Comprehensive Plan.

The objectives of this Plan are to:

Develop population and sewage flow projections for the City's sewer service area.

- Ensure consistency of planning assumptions with the King County Department of Natural Resources Wastewater Treatment Division (King County WTD) and the City Planning Department.
- Update the City's sewer model using MIKE URBAN sewer modeling software and the City's GIS system.
- Establish design criteria for analyzing facilities.
- Analyze the existing sewer system with existing and future flows to determine possible deficiencies.
- Develop a capital improvement program (CIP).
- Develop implementation strategy and financial program for proposed CIP.
- Review City policies that may impact planned improvements to Redmond's sewer system.
- Summarize efforts to identify opportunities for reclaimed water use.

1.2 Ownership and Management

The City of Redmond (City) is a municipal corporation that owns and operates a public sewer collection system. The City uses a Mayor-Council form of government. The Mayor oversees the management of the Public Works Department through the Public Works Director. The collection system is managed by the Water/Wastewater Division within the Public Works Department.

The City does not own or operate a wastewater treatment plant (WWTP). Rather, wastewater is conveyed to various King County owned interceptors within the sewer service area and the County is contracted for further conveyance and treatment. Wastewater generated in Redmond's sewer service area is ultimately treated at the County's Brightwater Treatment Plant.

1.3 Regulatory Requirements

Several local, state, and federal regulatory requirements guide the planning, operation, design, and construction of sewer systems, and these must be considered with this planning process. The rules and requirements that are pertinent to the Sewer Plan are described in the following sections.

1.3.1 Department of Ecology

This Plan was prepared in accordance with the requirements of the Washington State Department of Ecology (Ecology) as defined in Chapter 173-240-050 of the Washington Administrative Code (WAC) and Chapter 90.48 of the Revised Code of Washington (RCW). The WAC requirements and location are addressed within this document and are shown in Table 1.1. below:

Table 1.1 Comprehensive Sewer Plan Requirements per WAC 173-240-050				
Reference Paragraph	Description of Requirement	Location in Document		
3a	Purpose and need for proposed plan	Chapter 1.1		
3b	Who will own, operate, and maintain system	Chapter 1.2		
3c	Existing and proposed service boundaries	Chapter 2		
3d	Layout map showing boundaries; existing sewer facilities; proposed sewers; topography and elevations; streams, lakes; and other water bodies; water systems	Chapter 2		
3e	Population trends	Chapter 3.1		
3f	Existing domestic and/or industrial wastewater facilities within 20 miles	Chapter 2		
3g	Infiltration and inflow problems	Chapter 4		
3h	Treatment systems and adequacy of such treatment	Chapter 1 – N/A		
3i	Identify industrial wastewater sources			
3k	Discussion of collection alternatives	Chapter 4		
3k	Discussion of treatment alternatives	Chapter 3 – N/A		
3k	Discussion of disposal alternatives	Chapter 3.3.3		
31	Define construction cost and O&M costs	Chapter 6		
3m	Compliance with management plan			
3n	SEPA compliance	Appendix C		

1.3.2 Growth Management Act

Under the requirements of the state Growth Management Act, Redmond must commit to serving the sewer needs of the planned growth that will occur within Redmond's urban boundary during the next six years. This Plan includes an evaluation of the existing sewer system and identification of additional facilities needed to accommodate the planned growth to comply with the state regulations.

1.3.3 King County

The 2016 King County Comprehensive Plan is the county's land use planning document that defines growth strategies for achieving the Growth Management Act's 13 planning goals. The first plan was adopted in 1994 and the 2016 Plan was last amended October 29, 2018. Chapter 9 of the King County Comprehensive Plan addresses services, facilities, and utilities, including public sewer systems, and supports the Phase 1 Countywide Planning Policies and the Phase II amendments finalized in May 1994.

Title 13 of the King County Code sets requirements for water and sewer systems, including review guidelines and consideration of reclaimed water. Title 13 requires sewer and water comprehensive plans to consider opportunities for reclaimed water. Redmond does not operate a WWTP so providing reclaimed water through sewage treatment is not viable. Reclaimed water is available within the City limits from the Brightwater Treatment Plant. Use of reclaimed water from Brightwater is discussed in Chapter 3. This 2019 Plan Update will be reviewed by the County's Utility Technical Review Committee (UTRC) per the requirements in Title 13. This 2019 Plan Update is consistent with the strategy and policies presented in King County's documents.

1.4 Plan Organization and Contents

This Plan defines the current service area, sewer basins, and existing infrastructure; delineates the future sewer planning area, the projected service population, and resulting sewage flows; and presents proposed improvements to upgrade existing facilities and provide adequate sewer service to existing and future customers in Redmond's service area.

Specific components included in this Plan are identified below.

Introduction (Chapter 1)

- Purpose and objectives of the City's General Sewer Plan Update.
- Regulatory requirements of the sewer system and planning process.
- Overview of the Plan contents and glossary of terms and abbreviations.

System Description (Chapter 2)

- Defines the existing service area and sewer planning area boundaries and the geographical features and resources within these boundaries.
- Discusses the relationship with King County and other sewer providers.
- Documents land use and zoning throughout the service and planning areas.
- Summarizes regulations and permitting relevant to the sewer system and planning.
- Describes the existing sewer facilities and provides an inventory of the sewer basins, mains, and pump stations.
- Summarizes the City's water system and facilities.

Planning Criteria and Flow Projections (Chapter 3)

- Documents existing and future demographics.
- Estimates current and future sewage flows for Redmond's sewer system based on current usage and future zoning.
- Presents accepted design criteria standards and discusses King County WTD's policies for future regional sewer service, which include infiltration and inflow (I/I), conveyance system improvements, and reclaimed water.
- Describes the use of planning data from the King County I/I Study in the development of City flows and the City's sewer model development.
- Discusses the impacts of water conservation on the City's sewer system.

Sewer System Evaluation (Chapter 4)

- Summarizes efforts to analyze the system using a hydraulic and hydrologic wastewater model.
- Describes existing sewer facilities by basin.

- Identifies problem areas or deficiencies by capacity, operation and maintenance (O&M) and/or obsolescence.
- Presents recommended improvements by sewer basins.
- Provides figures of all the existing sewer facilities and recommended improvements.

Operations and Maintenance (O&M) (Chapter 5)

- Documents maintenance problems, describes Redmond's sewer inspection program and recordkeeping methods, and discusses operation and maintenance staff.
- Describes the City's Fats, Oils, and Grease (FOG) Program.
- Describes requirements for the Capacity, Maintenance, Operations, and Maintenance (CMOM) Program and a proposed plan for the City's implementation of CMOM.
- Presents an evaluation and condition assessment of the City's pump stations.
- Details enhancements to be made to the existing O&M Program.

Capital Improvement Program (Chapter 6)

- Summarizes the recommended infrastructure improvements identified in the sewer system evaluation for each basin.
- Summarizes the recommended improvements for the O&M Program.
- Identifies costs of the improvements and presents capital funding sources.

Implementation (Chapter 7)

- Identifies the procedures, permits, and approvals needed to implement the Plan.
- Describes the Neighborhood Sewer Replacement Program.

1.5 Glossary of Terms and Abbreviations

The following terms and abbreviations are used in this Plan:

AAF	Average Ann	nual Flow o	r Average I	Daily Flow	This flow

condition captured all daily flows during the year.

AWWF Average Wet Weather Flow. The average flow from the

months of November through March. All flows during this period are summarized regardless of the amount of

precipitation.

Basin An area that is served, or will be served, by a specific part

of a sewer system. Basins generally correspond to natural

drainage areas.

Budgeting by Priorities Process Budgeting process begun in 2017 that includes citizen

involvement and prioritization of City services based on

input from community involvement.

CIP Capital Improvement Program

CMOM Capacity, Management, Operation, and Maintenance

DFM Decennial Flow Monitoring

DWF Dry Weather Flow, or Domestic Flow. An estimation of

wastewater flow with little to no I/I contribution.

Ecology Washington State Department of Ecology

EPA Environmental Protection Agency

FAR Floor-to-Area Ratio FOG Fats, Oils, and Grease

Force Main A pipe that transports sewage under pressure delivered by

a sewage pump.

Full Service Area Defined by King County as areas where water supply is

available and where public sewer is available now or will

be provided in the next six years.

GMA Growth Management Act

gpad gallons per acre day

gpcd gallons per capita per day

gpd gallons per day gpm gallons per minute ILA Interlocal Agreement

Impact and Planning Area Area outside of the city limits that is anticipated to be

served by the City.

Infiltration Groundwater that enters a sewer system through fractured

or defective pipes, leaking pipe joints, leaking manholes,

and other defects.

Inflow Stormwater runoff that directly enters a sewer system from

roof, street, and other drains, perforated or leaking

manhole covers, and other sources. Water from foundation

drains is also considered inflow.

Combined total of infiltration and inflow without distinction I/I

between the two.

King County WTD King County Department of Natural Resources Wastewater

Treatment Division (formerly the Municipality of

Metropolitan Seattle or Metro)

LID **Local Improvement District**

million gallons per day mad

MMF Maximum Month Flow. The average flow of the maximum

month.

MWL Municipal Water Supply – Efficiency Requirements Act

> Chapter 5, commonly known as the "Municipal Water Law." It was adopted in 2003 and includes requirements for

water and wastewater master planning.

MIKE URBAN Danish Hydraulic Institute Software. This is the software

used for the hydraulic and hydrologic model simulations.

Northeast Sammamish Sewer and Water District **NESSWD**

NPDES National Pollution Discharge Elimination System. As

authorized by the Clean Water Act, the NPDES permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. Point sources are discrete conveyances such as

pipes or man-made ditches.

PDF Peak Day Flow. The maximum total daily flow through the

system.

Peak Design Flow Estimated sewer flow in the system during a 100-year flow-

event.

PHF Peak Hour Flow. The peak sustained flow rate occurring

during a one-hour period.

Potential Annexation Areas Areas that Redmond would consider annexing if it would

be able to provide the facilities necessary to serve the resident population in compliance with Redmond's goals and policies. These are generally areas between

Redmond's city limits and its UGA boundary.

RCW Revised Code of Washington

RDI Rainfall Dependent Inflow/Infiltration

Results Teams Part of Budgeting by Priorities Process. Groups of five City

staff across departments and one citizen that are

responsible for providing recommendations to the Mayor

and Council on budgeting priorities.

Sewage Wastewater resulting from residential, commercial, and

industrial water use, exclusive of irrigation.

SEPA State Environmental Policy Act. A law of the State of

Washington that requires identification of environmental impacts for proposed projects and actions. Sewer plans

are subject to review under this law.

Sewer A pipe or conduit, generally closed but normally not flowing

full, for carrying sewage.

Service Planning Area Defined by King County as the area within Redmond's

urban growth area that will ultimately receive sewer

service.

Service Area The area currently served by sewers.

SFR Single-family Residential

SSOAP Sanitary Sewer Overflow Analysis and Planning

TDR Transfer of Density Rights

Urban Area King County defines as an area with a land use

classification of urban that is further classified as Full-

Service Area or Service Planning Area.

UGA Urban Growth Area

UPD Urban Planned Developments. These are land

developments within the UGA involving a public review process with the intent of mutual benefit to public and

private interests.

UTRC Utility Technical Review Committee, King County.

WAC Washington Administrative Code

WTD King County Wastewater Treatment Division

WWTP Wastewater Treatment Plant

From: Legals

To: Gloria Meerscheidt

Subject: RE: 10011 - Please publish on Thursday, May 6, 2021 - SEPA-2021-00311 General Wastewater Plan Update

Date: Tuesday, May 4, 2021 3:45:05 PM

Attachments: image002.png

image003.png image004.png image005.png image006.png image007.png image008.png image009.png 10011Proof.pdf

External Email Warning! Use caution before clicking links or opening attachments.

Hi Gloria,

This notice is scheduled to publish on 5/6, the total is \$202.93. Proof is attached.

Thank you!

Holly Botts

Legal Advertising Representative

p: (206) 652-6604

e: hbotts@seattletimes.com



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From: Gloria Meerscheidt < GMeerscheidt @ REDMOND.GOV>

Sent: Tuesday, May 04, 2021 3:13 PM **To:** Legals legals@seattletimes.com

Cc: Gloria Meerscheidt < GMeerscheidt@REDMOND.GOV>

Subject: 10011 - Please publish on Thursday, May 6, 2021 - SEPA-2021-00311 General Wastewater

Plan Update

Hello Seattle Times Representative,

Please publish the enclosed attachment (word format) as a liner ad for Thursday, May 6, 2021

Attachment: SEPA-2021-00311, COR Wastewater Plan Update

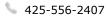
Please respond to verify this request.

Thank you,

Gloria Meerscheidt







gmeerscheidt@redmond.gov

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City of Redmond STATE ENVIRONMENTAL POLICY ACT (SEPA) DETERMINATION OF NON-SIGNIFICANCE

Name of Proposal/File Number: General Wastewater Plan Update SEPA-2021-00311

Description of Proposal: City of Redmond Wastewater Plan Update

Location of Proposal: city-wide

Site Address of Proposal (if any): n/a

Applicant: Jeff Thompson

Lead Agency: City of Redmond

The lead agency for this proposal has determined that the requirements of environmental analysis, protection, and mitigation measures have been adequately addressed through the City's regulations and Comprehensive Plan together with applicable State and Federal laws.

Additionally, the lead agency has determined that the proposal does not have a probable significant adverse impact on the environment as described under SEPA.

An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

Comment Period: Depending upon the proposal, a comment period may not be required. An "X" is placed next to the applicable comment period provision.

X This DNS is issued under WAC 197-11-340(2) and the lead agency will not make a decision on this proposal for 14 days from the date below. Comments can be submitted to the project Planner, Niomi Montes De Oca, at 425-556-2499, via fax at 425-556-2400, via e-mail at nmontesdeoca@redmond.gov. Comments must be submitted by May 20, 2021.

Responsible Official/Position/Title: Carol V. Helland, Planning Director

Responsible Official/Position/Title:
David Juarez, Public Works Director

Address: 15670 N.E. 85th Street, P.O. Box 97010, Redmond, WA 98073-9710

Appeal Period

You may appeal this determination to the City of Redmond Planning Department, Redmond City Hall, 15670 N.E. 85th Street, P.O. Box 97010, Redmond, WA 98073-9710, no later than 5:00 p.m. on 06/04/21 by submitting a completed City of Redmond Appeal Application Form available on the City's website at www.redmond.gov. You should be prepared to make specific factual objections.

For more information about the project or SEPA procedures, please contact the project planner, Niomi Montes De Oca at 425-556-2499 or e-mail nmontesdeoca@redmond.gov.

Date of DNS issuance: Thursday, May

From: Gloria Meerscheidt

<u>Adam; andy.swayne@pse.com; Avril Baty; casey_barney@yakama.com; Chris Jenkins; Dan Sokol; dbeadle@ci.sammamish.wa.us; Elizabeth.Elliott@kingcounty.gov; Erika Harris;</u> To:

Fisheries.fileroom@muckleshoot.nsn.us; fmiller@lwsd.org; genick@tulaliptribes-nsn.gov; Glen St. Amant - MITED

Habitat Program; Gretchen.Kaehler@dahp.wa.gov; Heidi Bedwell; Jennifer Meisner; jerry meninick@yakama.com; Jil Nogi; Jim Ishimaru; John Greene; Johnson Meninick; Jon Regala; klyste@stillaguamish.com; laura.murphy@muckleshoot.nsn.us; Mark.Wilgus@kingcounty.gov;

mattb@snoqualmietribe.us; Miles Penk; Peter Alm; Philippe D. LeTourneau; Puget Sound Clean Air Agency; robert.nunnenkamp@kingcounty.gov; rrod; ryoung@tulaliptribes-nsn.gov; sepacenter@dnr.wa.gov; sepadahp;

sepadesk@dfw.wa.gov; sepaunit@ecy.wa.gov; Stephanie Jolivette; Steve Mullen-Moses; Steve.Bottheim@kingcounty.gov; Steven Mullen-Moses; tina.morehead@kingcounty.gov;

tlavender2@frontier.com; tmcgruder@gmail.com; Todd Scott; Tom Hinman-citizen; WA Dept of Ecology; wendy

<u>klahr</u>

Cc: Niomi Montes De Oca; Gloria Meerscheidt; Jeff Thompson Subject: City of Redmond - SEPA - General Wastewater Plan Update

Date: Wednesday, May 5, 2021 1:25:44 PM

SEPA202100311.pdf Attachments:

Chapter 1 - Introduction.pdf

image002.png image004.png image006.png image008.png image010.png image012.png image014.png image016.png

Hello,

Attached: City of Redmond General Wastewater Plan Update, SEPA-2021-00311

Type of SEPA Documentation: Determination of Non-Significance

Description of Proposal: Update to the City of Redmond General Wastewater Plan

Date of Issuance: May 6, 2021

If you have any questions, please contact the assigned planner:

- Niomi Montes De Oca
- nmontesdeoca@redmond.gov
- 425-556-2499

Gloria Meerscheidt

Administrative Assistant, City of Redmond



425-556-2407

gmeerscheidt@redmond.gov

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